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| APPLICATION NO.  | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |  |
|--|-----------------|----------------------|-------------------------|------------------|--|
| 10/040,620   | 01/09/2002      | Jun Ogawa            | Q67924                  | 3006             |  |
| 7:   | 7590 04/09/2004 |                      |                         | EXAMINER         |  |
| SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213 |                 |                      | MAHONEY, CHRISTOPHER E  |                  |  |
|  |                 |                      | ART UNIT                | PAPER NUMBER     |  |
|  |                 |                      | 2851                    |                  |  |
|  |                 | ·                    | DATE MAILED: 04/09/2004 |                  |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Application No.   Applicatin(s)   OGAWA, JUN   Examiner  |   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
| Examiner   |   | Application No.  | Applicant(s)   |  |  |  |  |
| Christopher E Mahoney   2851   |   | 10/040,620   | OGAWA, JUN   |  |  |  |  |
| The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edurations of time may be available under the provisions of 3 C.FR 1.136(a). In a overt, however, may a neyly be timely filled  ### the pation of time may be available under the provisions of 3 C.FR 1.136(a). In no overt, however, may a neyly be timely filled  ### the pation of timely is specified above its less time thirty (30) days, a reply with the statutory minimum of thirty (30) days, a reply with the pation of the patio  | Office Action Summary   | Examiner   | Art Unit   |  |  |  |  |
| Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  after SIX (8) MONTHS from the mailing date of this communication. 11 State SIX (8) MONTHS from the mailing date of this communication. 11 State SIX (8) MONTHS from the mailing date of this communication. 11 State SIX (8) MONTHS from the mailing date of this communication, which will apply and with significant section of the property of the state SIX (8) MONTHS from the mailing date of this communication, spend of the significant section of the state of th |   | L  |  |  |  |  |  |
| THE MAILING DATE OF THIS COMMUNICATION.  Extrainisors of time may be available under the provides of 3F CR 1.136(b). In no event, however, may a reply be timely field after SX (8) MONTHS from the mailing date of this communication.  If the period comply extended the contraction of the provided of the communication of the provided provided by the contraction of the provided provided by the contraction of the provided provided by the Claim of the state of the communication.  False to reply within the set or extended provide the maximum tasknoy peded will be payed will staging X(6) MONTHS from the mailing date of risk communication.  False to reply within the set or extended provided by the Claim of the thin the more mail stateshoy peded will be payed will staging X(6) MONTHS from the mailing date of risk communication.  False to reply within the set or extended provided by the State of the communication.  False to reply within the set or extended provided by the State of the State | · ·   |  |  |  |  |  |  |
| 2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 2-7 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) 2,3,5 and 6 is/are allowed.  6)  Claim(s) 2,3,5 and 6 is/are allowed.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a) cocepted or b objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a) approved by disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies on treceived.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has bee  | <ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply</li> <li>If NO period for reply is specified above, the maximum statutory period w</li> <li>Failure to reply within the set or extended period for reply will, by statute,</li> <li>Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul> | 36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communication. (35 U.S.C. § 133). |  |  |  |  |
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|  | 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 7   | 5) Notice of Informal  |  |  |  |  |  |

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## **DETAILED ACTION**

### **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Allowable Subject Matter

Claims 2-3 and 5-6 are allowed.

Prosecution on the merits of this application is reopened on claims 4 and 7 and are considered unpatentable for the reasons indicated below:

The indicated allowability of claims is withdrawn in view of the newly cited reference to Ishikawa (JP4-287033). Rejections based on the newly cited reference(s) follow. Ishikawa was cited by the applicant in the IDS filed July 23, 2003.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yata (U.S. Patent No. 4,674,836) in view of Ishikawa (JP4-287033). Yata teaches a picture display of a rear surface projection type, comprising: a projector P for shooting out a light flux modulated by a picture, a transparent screen S, on a rear surface 1A, 1B of which said light flux shot out

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from said projector is projected, and a sawlike prismatic surface which is formed on said rear surface of said transparent screen (abstract, lines 4-5), and provided with plural edges shaped into concentric circles (abstract, line 6) centering around a central point situated outside said transparent screen O', wherein an optical axis of said projector passes through said central point, and a ray of light incident on a first face looking downward (1B) and neighboring with each of said plural edges is efficiently transmitted into said transparent screen, and said ray of light transmitted through said first face is totally reflected by a second face looking upward (1A) and neighboring with said same edge to a front surface of said transparent screen, in case that a angle formed by said ray of light incident on said first face and said optical axis of said projector is greater than 40 degree and less than 90 degree (abstract, lines 2-3). Light absorbing layers are made by using black ink (col. 7, lines 30). The applicant is directed to review the abstract, figures 5-8 as well as col. 3, line 57 to col. 4, line 28). Yata does not teach that the second face looking upward contains a light absorption layer for absorbing an external light transmitted into said transparent screen through said front surface thereof. Ishikawa teaches in figure 2 that it was known to provide a light absorption layer 9 for absorbing an external light 8 transmitted into said transparent screen through said front surface thereof is formed on an external surface of said second face looking upward 9b. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the features as taught by Ishikawa for the purpose of improved contrast.

#### Conclusion

Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on July 23, 2003 prompted the new ground(s) of rejection

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presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 609(B)(2)(i). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher E Mahoney whose telephone number is (703) 305-3475. The examiner can normally be reached on 8:30AM-5PM, Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on (703) 308-2847. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Christopher E Mahoney Primary Examiner

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